BRUHAT BANGALORE MAHANAGARA PALIKE

Project: improvements to roads and drains at Bhadrappa at Kodigehall Ward no 08

Est Cost: 49.00lakhs

Sl. No	Description of Item	Unit	No.	Length	Breadth	Depth	Quantity	Rate in Rs.	Amount in Rs.
				m	m	m			
1	KSRRB M300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface levelled and sides neately dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification. MORTH / Chapter 3 (P.No.142, I.No.19.1 of PW, P&IWTD SR 2016-17)								
	Bhadrappa layout	Cum							
	maruthi nagar main road		2	274.00	1.10	1.13	681.16		
	Culverts		3	5.60	1.30	1.20	26.21		
							707.37	186.92	**132221.97**
	Basic rate	82.00							
	Loading and unloading with	100.00							
	Area Weightage 6%	4.92							
	Final Rate	186.92							
2	KSRB 4-1.2: Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.892 cum and fine aggregates @ 0.465 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I.No.4.2 of PW,P&IWTD S.R 2016-17)								
	Bed Concrete	Cum							
	Bhadrappa layout								
	maruthi nagar main road		2	274.00	1.1	0.150	90.42		
	Culverts		3	5.60	1.3	0.150	3.28		
							93.70	5348.76	**501157.42**
	Basic rate	5046.00							
	Area Weightage 6%	302.76							
	Final Rate	5348.76							
3	KSRB 4-6.1: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specifications. Specifcation No. KBS 4.6.2 (P.No.15, I.No.4.28 of PW, P&IWTD SR 2016-17)								
	Bottom Slab	Sqm							
	Bhadrappa layout								
	maruthi nagar main road		4	274		0.150	164.40		
	Culverts		6	5.6		0.150	5.04		
							169.44	244.86	**41489.08**
	Basic rate	231.00							
	Area Weightage 6%	13.86							
	Final Rate	244.86							

No.	Description of Item	Unit	No.	Length	Breadth	Depth	Quantity	Rate in Rs.	Amount in Rs.
				m	m	m			
4	KSRB 4-6.4: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surfaces such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification No.KBS 4.6.2 (P.No.15, I.No.4.31 of PW,P&IWTD SR 2016-17)								
	Side Walls	Sqm							
	Bhadrappa layout								
	maruthi nagar main road		8	274.00	--	0.800	1753.60		
	Culverts		12	5.60	--	0.800	53.76		
							1807.36	310.58	**561329.87**
	Basic rate	293.00							
	Area Weightage 6%	17.58							
	Final Rate	310.58							
5	Providing and laying cement concrete using 20mm and downsize granite coarse aggregates and fine aggregates of ready mixed concrete (RMC) for RCC works laid in 15cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, with all lead and lifts etc., complete (exclusive of cpost of steel and fabricaton charges) Ready Mixed Cement Concrete M 20 for Raft foundation, Column, Footing, main and secondary beams. (P.No.18, I.No.4.48 of PW, P&IWTD SR 2016-17)								
	Culvert	Cum							
	Bottom Slab								
	Bhadrappa layout								
	maruthi nagar main road		2	274.00	0.90	0.15	73.98		
	Culverts		3	5.60	1.10	0.25	4.62		
	Side Walls								
	Bhadrappa layout								
	maruthi nagar main road		4	274.00	0.15	0.80	131.52		
	Culverts		6	5.60	0.25	0.80	6.72		
							216.84	6231.74	**1351290.50**
	Basic rate	5879.00							
	Area Weightage 6%	352.74							
	Final Rate	6231.74							
6	KSRB - 4.9.2: Providing TMT steel reinforcement Fe500 for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per								
	Consider 55Kgs/cum for item No. only RCC Drain Qty	Tonne		216.84	0.055	--	11.93		

Sl. No	Description of Item	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
							11.93	64243.42	**766424.00**
	Basic rate	60607.00							
	Area Weightage 6%	3636.42							
	Final Rate	64243.42							
7	*Providing and fixing* ***RCC Precast cover slab of 100mm thick*** *for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)*								
		Sqm							
	Bhadrappa layout								
	maruthi nagar main road		2	274.00	0.90	--	493.20		
							493.20	1834.00	**904528.80**
	1834.00								
8	*Providing and fixing* ***RCC Precast cover slab of 250mm thick*** *for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)*								
		Sqm							
	Culverts								
	Culverts		3	5.60	1.20	--	20.16		
							20.16	5111.00	**103037.76**
	5111.00								
9	*KSRB 4-1.6: Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I.No.4.6 of PW,P&IWTD S.R 2016-17)*								
	Coping	Cum							
	maruthi nagar main road	0.5	2.00	274.00	0.300	0.100	8.22		
	Culverts	0.5	3.00	5.60	0.300	0.250	0.63		
							8.85	5767.46	**51042.02**
	Basic rate	**5441.00**							
	Area Weightage 6%	**326.46**							
	Final Rate	**5767.46**							
								Total Construction Cost	**4412521.421**
10								***Cost towards Design Report , PMC / Third Party inspection LS***	**44125.21**
11								***Tender premium 10%***	**441252.14**
								Sub Total	**4897898.78**
12								***Miscellaneous and rounding off***	**2101.22**
								Total	**4900000.00**

ADMINISTRATIVE APPROVAL
Accorded For Rupees Forty Nine lakhs only
Head of A/c P-3333
Div. Ref. No. 165/17-18 Date 27/01/18
AE 27/01
EE(BTP) 27/01

Technical Sanction Accorded For Rs. Forty Nine lakhs only
Head of A/c P-3333
CER NO: TS/557/17-18 27/01/18

Certificate.

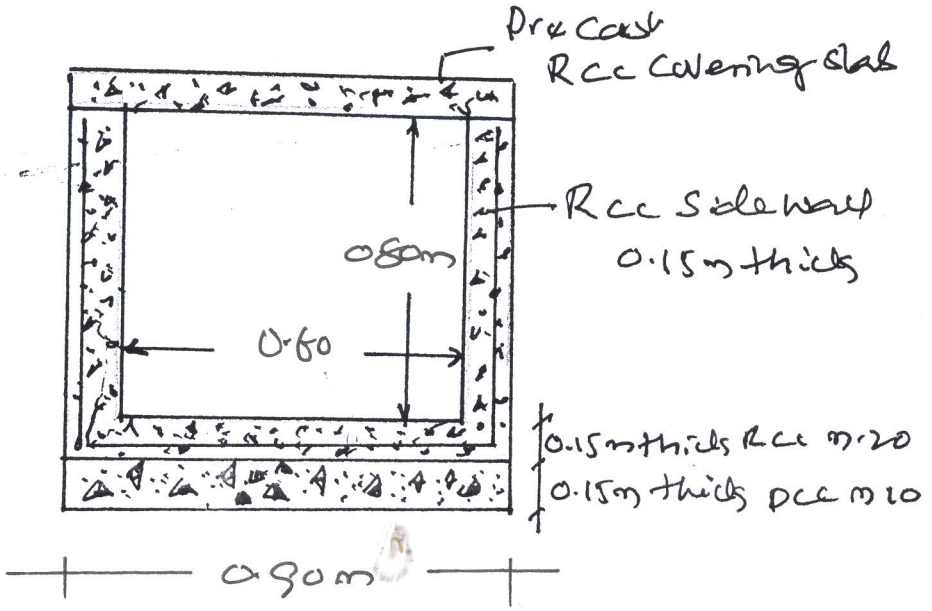
1 *The workspot was inspected and Provisions made in the estimate are adequate and necessary.*
2 *Work Spot comes under BBMP limits.*
3 *The estimate based on PWD CSR for the year 2016-17.*
4 *This work is not split up.*
5 *These works are not taken up in any other grants and free from Defect Liability Period.*
6 *Earlier Improvements taken up in the proposed roads are recorded in earlier road history.*

Assistant Engineer 15.88

Assistant Executive Engineer

Executive Engineer 27/01
Executive Engineer
Byatarayanapura Division
Yelahanka Zone, B.B.M.P.
Bangalore - 560 092
27/01

NAME OF WORK:- Improvements of Roads and drains at Bhadrappa Layout at Kadigehalli ward no. 8



Bhadrappa Layout Maruthi nagar Main Road